

The figure displays a sequence alignment of various proteins across different species. The x-axis represents the position of each amino acid, ranging from 10 to 800. The y-axis lists the protein names for each species. The alignment uses color-coded boxes to indicate conservation of amino acids. Red boxes represent conservative substitutions, green boxes represent semi-conservative substitutions, and blue boxes represent non-conservative substitutions. The alignment shows significant conservation of the sequence across all species, with many identical amino acids indicated by red boxes.

Detailed description of the sequence alignment:

- Human Proteins:** 31217074.i, 31217078.i, 24656112.f, 17569069.w, 28882060.m, 7710058.m, ZC3/MINK.h, 34871052.m, 34875652.m, ZC1/HGK.h, 6679060.m, 38077770.m, ZC2/TNIK.h, 34856763.m, 1f3m_Paka, 34881569.m, 7305327.m, ZC4/NRK.h
- Mouse Proteins:** 31217074.i, 31217078.i, 24656112.f, 17569069.w, 28882060.m, 7710058.m, ZC3/MINK.h, 34871052.m, 34875652.m, ZC1/HGK.h, 6679060.m, 38077770.m, ZC2/TNIK.h, 34856763.m, 1f3m_Paka, 34881569.m, 7305327.m, ZC4/NRK.h
- Rat Proteins:** 31217074.i, 31217078.i, 24656112.f, 17569069.w, 28882060.m, 7710058.m, ZC3/MINK.h, 34871052.m, 34875652.m, ZC1/HGK.h, 6679060.m, 38077770.m, ZC2/TNIK.h, 34856763.m, 1f3m_Paka, 34881569.m, 7305327.m, ZC4/NRK.h
- Dog Proteins:** 31217074.i, 31217078.i, 24656112.f, 17569069.w, 28882060.m, 7710058.m, ZC3/MINK.h, 34871052.m, 34875652.m, ZC1/HGK.h, 6679060.m, 38077770.m, ZC2/TNIK.h, 34856763.m, 1f3m_Paka, 34881569.m, 7305327.m, ZC4/NRK.h
- Cow Proteins:** 31217074.i, 31217078.i, 24656112.f, 17569069.w, 28882060.m, 7710058.m, ZC3/MINK.h, 34871052.m, 34875652.m, ZC1/HGK.h, 6679060.m, 38077770.m, ZC2/TNIK.h, 34856763.m, 1f3m_Paka, 34881569.m, 7305327.m, ZC4/NRK.h
- Horse Proteins:** 31217074.i, 31217078.i, 24656112.f, 17569069.w, 28882060.m, 7710058.m, ZC3/MINK.h, 34871052.m, 34875652.m, ZC1/HGK.h, 6679060.m, 38077770.m, ZC2/TNIK.h, 34856763.m, 1f3m_Paka, 34881569.m, 7305327.m, ZC4/NRK.h
- Zebrafish Proteins:** 31217074.i, 31217078.i, 24656112.f, 17569069.w, 28882060.m, 7710058.m, ZC3/MINK.h, 34871052.m, 34875652.m, ZC1/HGK.h, 6679060.m, 38077770.m, ZC2/TNIK.h, 34856763.m, 1f3m_Paka, 34881569.m, 7305327.m, ZC4/NRK.h

